

Application No.: 10/822,726Docket No.: 2336-265

ABSTRACT.

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A WDM system has a receiving optical fiber for receiving mixed optical signals. A filter is arranged at an output end of the receiving optical fiber for selectively transmitting a specific wavelength optical signal reflecting remaining wavelength optical signals. A transmitting optical fiber outputs the specific wavelength optical signal transmitted through the filter. A shutter member attenuates the specific wavelength optical signal between the filter and the transmitting optical fiber. An actuator drives the shutter member across the propagation path of the specific wavelength optical signal, and a control unit controls the actuator.